

03040202-150

(Lake Swamp)

General Description

Watershed 03040202-150 is located in Florence County and consists primarily of **Lake Swamp** and its tributaries from its origin to Singleton Swamp. The watershed occupies 25,693 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Lynchburg-Fuquay-Rains-Goldsboro series. The erodibility of the soil (K) averages 0.15; the slope of the terrain averages 2%, with a range of 0-6%. Land use/land cover in the watershed includes: 43.1% agricultural land, 32.0% forested land, 13.8% scrub/shrub land, 7.8% forested wetland (swamp), 3.2% urban land, and 0.1% water.

Twomile Branch (Cypress Branch, Sandy Run Branch, Spring Run) merges with the Camp Branch Watershed near the City of Lake City to form the headwaters of Lake Swamp. There are a total of 46.4 stream miles in this watershed and a few ponds totaling 16.7 acres. Lake Swamp is classified FW* (Dissolved oxygen not less than 4.0 mg/l and pH between 5.0 and 8.5) and the remaining streams are classified FW.

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
PD-085	S	FW*	LAKE SWAMP AT US 378
PD-086A	S	FW*	LAKE SWAMP ON SC 341

Lake Swamp - There are two monitoring sites along Lake Swamp. At the upstream site (**PD-085**), aquatic life uses are fully supported. This is a blackwater swamp system, characterized by naturally low dissolved oxygen concentrations. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater swamps and were considered natural, not standards violations. A significant increasing trend in dissolved oxygen concentration and significant decreasing trends in five-day biochemical oxygen demand and turbidity suggest improving conditions for these parameters. Recreational uses are fully supported.

At the downstream site (**PD-086A**), aquatic life uses are not supported due to dissolved oxygen excursions, compounded by a significant increasing trend in turbidity. This too is a blackwater swamp system, characterized by naturally low dissolved oxygen concentrations; however, dissolved oxygen concentrations are inordinately low. Recreational uses are partially supported due to fecal coliform bacteria excursions.

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME
FACILITY TYPE

PERMIT #
STATUS

LAKE CITY DUMP

CLOSED

Growth Potential

There is a low to moderate potential for growth in this watershed, which contains portions of the City of Lake City and the Town of Scranton. Water and sewer services are limited to the urban areas of Lake City and Scranton. The sewer system in Scranton and the wastewater system in Lake City are currently undergoing an expansion. The watershed is traversed by U.S. Hwy. 52 (north/south) and U.S. Hwy. 378 (east/west). U.S. Hwy. 52 is a four-lane highway, and the main corridor between the Cities of Florence and Charleston. A rail line parallels the road corridor between Lake City and Florence. This highway corridor contains the NanYa Industrial Complex and a surrounding multi-county industrial park, making this a prime industrial growth corridor in the region. The Florence County Industrial Park at Lake City and the recently expanded water and sewer capacity of the City of Lake City should also encourage industrial growth. There are no plans to widen U.S. Hwy. 378, but it is a major beach access highway. Additional commercial development is possible along U.S. Hwy. 52 and at the U.S. Hwy. 52/U.S. Hwy. 378 intersection.